

SEQUENCE LISTING

<110> Oy Jurilab Ltd

<120> Method for detecting the risk of acute myocardial infarction and coronary heart disease

<130> 40597

<160> 56

<170> PatentIn version 3.1

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 Ala Ala Ile Thr Phe Leu Ile Leu Phe Thr Ile Phe Gly Asn Ala Leu
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 gtc atc ctg gct gtg ttg acc agc cgc tcg ctg cgc gcc cct cag aac 144
 Val Ile Leu Ala Val Leu Thr Ser Arg Ser Leu Arg Ala Pro Gln Asn
 35 40 45
 ctg ttc ctg gtg tcg ctg gcc gcc gcc gac atc ctg gtg gcc acg ctc 192
 Leu Phe Leu Val Ser Leu Ala Ala Ala Asp Ile Leu Val Ala Thr Leu
 50 55 60
 atc atc cct ttc tcg ctg gcc aac gag ctg ctg ggc tac tgg tac ttc 240
 Ile Ile Pro Phe Ser Leu Ala Asn Glu Leu Leu Gly Tyr Trp Tyr Phe
 65 70 75 80
 cgg cgc acg tgg tgc gag gtg tac ctg gcg ctc gac gtg ctc ttc tgc 288
 Arg Arg Thr Trp Cys Glu Val Tyr Leu Ala Leu Asp Val Leu Phe Cys
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 Thr Ser Ser Ile Val His Leu Cys Ala Ile Ser Leu Asp Arg Tyr Trp
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 Ala Val Ser Arg Ala Leu Glu Tyr Asn Ser Lys Arg Thr Pro Arg Arg
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 Ile Lys Cys Ile Ile Leu Thr Val Trp Leu Ile Ala Ala Val Ile Ser
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Cys	Gly	Ala	Ser	Pro	Glu	Asp	Glu	Ala	Glu	Glu	Glu	Glu	Glu	Glu	Glu
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Trp	Trp	Arg	Arg	Arg	Ala	His	Val	Thr	Arg	Glu	Lys	Arg	Phe	Thr	Phe
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Ile Ile Pro Phe Ser Leu Ala Asn Glu Leu Leu Gly Tyr Trp Tyr Phe			240
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85 90 95			
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Ile Lys Cys Ile Ile Leu Thr Val Trp Leu Ile Ala Ala Val Ile Ser			432
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 Cys Lys Val Pro His Gly Leu Phe Gln Phe Phe Phe Trp Ile Gly Tyr
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 420 425 430

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<210> 23
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Val Ile Leu Ala Val Leu Thr Ser Arg Ser Leu Arg Ala Pro Gln Asn
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Leu Phe Leu Val Ser Leu Ala Ala Ala Asp Ile Leu Val Ala Thr Leu
 50 55 60

Ile Ile Pro Phe Ser Leu Ala Asn Glu Leu Leu Gly Tyr Trp Tyr Phe
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Arg Arg Thr Trp Cys Glu Val Tyr Leu Ala Leu Asp Val Leu Phe Cys
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 100 105 110

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Ile Lys Cys Ile Ile Leu Thr Val Trp Leu Ile Ala Ala Val Ile Ser
 130 135 140

Leu 145	Pro	Pro	Leu	Ile	Tyr 150	Lys	Gly	Asp	Gln	Gly 155	Pro	Gln	Pro	Arg	Gly 160
Arg	Pro	Gln	Cys	Lys 165	Leu	Asn	Gln	Glu	Ala 170	Trp	Tyr	Ile	Leu	Ala	Ser 175
Ser	Ile	Gly	Ser 180	Phe	Phe	Ala	Pro	Cys 185	Leu	Ile	Met	Ile	Leu	Val	Tyr 190
Leu	Arg	Ile 195	Tyr	Leu	Ile	Ala	Lys 200	Arg	Ser	Asn	Arg	Arg	Gly	Pro	Arg
Ala	Lys 210	Gly	Gly	Pro	Gly	Gln 215	Gly	Glu	Ser	Lys	Gln 220	Pro	Arg	Pro	Asp
His 225	Gly	Gly	Ala	Leu	Ala 230	Ser	Ala	Lys	Leu	Pro 235	Ala	Leu	Ala	Ser	Val 240
Ala	Ser	Ala	Arg	Glu 245	Val	Asn	Gly	His	Ser 250	Lys	Ser	Thr	Gly	Glu	Lys 255
Glu	Glu	Gly	Glu	Thr 260	Pro	Glu	Asp	Thr 265	Gly	Thr	Arg	Ala	Leu	Pro	Pro
Ser	Trp	Ala 275	Ala	Leu	Pro	Asn	Ser 280	Gly	Gln	Gly	Gln	Lys 285	Glu	Gly	Val
Cys 290	Gly	Ala	Ser	Pro	Glu	Asp 295	Glu	Ala	Glu	Glu	Glu 300	Glu	Glu	Glu	Glu
Glu 305	Glu	Glu	Glu	Glu	Cys 310	Glu	Pro	Gln	Ala	Val 315	Pro	Val	Ser	Pro	Ala 320
Ser	Ala	Cys	Ser	Pro 325	Pro	Leu	Gln	Gln	Pro 330	Gln	Gly	Ser	Arg	Val	Leu 335
Ala	Thr	Leu	Arg 340	Gly	Gln	Val	Leu	Leu	Gly 345	Arg	Gly	Val	Gly	Ala	Ile 350
Gly	Gly	Gln 355	Trp	Trp	Arg	Arg	Arg 360	Ala	His	Val	Thr	Arg 365	Glu	Lys	Arg
Phe 370	Thr	Phe	Val	Leu	Ala	Val 375	Val	Ile	Gly	Val	Phe	Val 380	Leu	Cys	Trp
Phe	Pro	Phe	Phe	Phe	Ser	Tyr	Ser	Leu	Gly	Ala	Ile	Cys	Pro	Lys	His

385 390 395 400

Cys Lys Val Pro His Gly Leu Phe Gln Phe Phe Phe Trp Ile Gly Tyr
405 410 415

Cys Asn Ser Ser Leu Asn Pro Val Ile Tyr Thr Ile Phe Asn Gln Asp
420 425 430

Phe Arg Arg Ala Phe Arg Arg Ile Leu Cys Arg Pro Trp Thr Gln Thr
435 440 445

Ala Trp
450

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<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 24
gggtgtttgt ggggcatctc
```

20

```
<210> 25
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Snapshot primer
<400> 25
tggcactgcc tgggggttca
```

19

```
<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequencing primer
<400> 26
tcagggtcttc tcccagca
```

18

```
<210> 27
<211> 619
<212> DNA
<213> Homo sapiens
<400> 27
ggatgaagca gaatgaagag taggtaaccc tgaggttgag aggtatatattg ttggaccagg 60
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gagcaggtaa taaatacatc ctggatagac tcacatgggg aaaaaaacta tgatcttgca 120

tgactaacac atagctagta agatttcttg tcacttacga caaagacatg aattttctcc 180

atcctaacat gactgataca gtgtctotta tttagactat ctcagttagt ctggctgtgc 240

```

ttgtcctttt tcccacctcc ctgctgtgtc ctgaccctct cttctttcca caggttctca 300
ggcaagagcc acctgctatt gccgaaccgg ccgttgtgtc acccgtgagt ccctctccgg 360
ggtgtgtgaa atcagtggcc gcctctacag actctgctgt cgctgagctt cctagataga 420
aaccaaagca gtgcaagatt cagttcaagg tcctgaaaaa agaaaaacat ttactctgt 480
gtaccttggtg tctttctaaa tttctctctc caaagtaaag ttcaagcatt aaacttagtg 540
tgtttgacct ttttaatttt cttttctttt tccctttttt tcttttgctt tgttatatgg 600
tggtttgtat ggttccttt 619

```

```

<210> 28
<211> 619
<212> DNA
<213> Homo sapiens
<400> 28

```

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ggatgaagca gaatgaagag taggtaaccc tgagggtgag aggtatattg ttggaccagg 60
gagcaggtaa taaatacatc ctggatagac tcacatgggg aaaaaaacta tgatcttgca 120
tgactaacac atagctagta agatttcttg tcacttacga caaagacatg aattttctcc 180
atcctaacat gactgataca gtgtctctta tttagactat ctgagttagt ctggctgtgc 240
ttgtcctttt tcccacctcc ctgctgtgtc ctgaccctct cttctttcca caggttctca 300
ggcaagagcc acctgctatt gccgaaccgg ccgttgtgtc acccgtgagt ccctctccgg 360
ggtgtgtgaa atcagtggcc gcctctacag actctgctgt cgctgagctt cctagataga 420
aaccaaagca gtgcaagatt cagttcaagg tcctgaaaaa agaaaaacat ttactctgt 480
gtaccttggtg tctttctaaa tttctctctc caaaataaag ttcaagcatt aaacttagtg 540
tgtttgacct ttttaatttt cttttctttt tccctttttt tcttttgctt tgttatatgg 600
tggtttgtat ggttccttt 619

```

```

<210> 29
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 29
ggatgaagca gaatgaaga 19

```

```

<210> 30
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 30

```

aaaggaacca tacaaacca 19

<210> 31
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Sequencing primer
 <400> 31
 gttagtctgg ctgtgctt

18

<210> 32
 <211> 1052
 <212> DNA
 <213> Homo sapiens
 <400> 32
 gggctactga gtttggtgaa aagataagac tcctgaaaat tctattgatt ctcttttgaa 60
 cttcttttctt aaattagttt tatgatggac ttggctctca ttggtatttc ccaagattat 120
 ggagatggga tagtgatgtc tgacaagtac ctaagatgct aagttgaagg tctaaaattc 180
 catcctaaaa gcaaataatt actctatcat ctacgtgccc ttgcttctt aaagttactc 240
 aaggaaggca gactaaacag gaaatttact ttggattcaa gaggggcata gagacgctct 300
 cagcctgccc atttgccctc atcaacattc ctaaacactg ggcttaaaat gtagtatgag 360
 taaactctct cttagtctat ccatctccca ctagcagttt taacatcatc tctagttatt 420
 aaccttggct caatggcttt ctctctttt ttatacaga atttattggc ttgagacgct 480
 gtttaaatggg tttggggaga tgcagggatc actgcaatgt ggatgaaaaa gagatacaga 540
 aatgcaagat gaaaaaatgt tgtgttggac caaaagtggg taaattgatt aaaaactacc 600
 tgcaatatgg aacaccaa atgtacttaatg aagacgtcca agaaatgcta aaacctgcca 660
 agaattctag tgctgtgata caaagaaaac atattttatc tgttctcccc caaatcaaaa 720
 gcactagctt ttttgcta ataccactttg tcatcattcc aaatgccacc cctatgaact 780
 ctgccaccat cagcactatg accccaggac agatcacata cactgctact tctaccaaga 840
 gtaacaccaa agaaagcaga gattctgcca ctgcctcgcc accaccagca ccacctccac 900
 caaacatact gccaacacca tcactggagc tagaggaagc agaagagcag taatgtggat 960
 ctttccctta aaactccaag ttctctctta tttttgctat ctataaaatg acatagaact 1020
 gtttcctctg tcatcagtc tcaataaac ac 1052

<210> 33
 <211> 1049
 <212> DNA
 <213> Homo sapiens
 <400> 33

```

gggctactga gtttgggtgaa aagataagac tcctgaaaat tctattgatt ctcttttgaa      60
cttcttttctt aaattagttt tatgatggac ttggctctca ttggtatttc ccaagattat      120
ggagatggga tagtgatgtc tgacaagtac ctaagatgct aagttgaagg tctaaaattc      180
catcctaaaa gcaaataatt actctatcat ctacgtgccc ttgcttctt aaagttactc      240
aaggaaggca gactaaacag gaaatttact ttggattcaa gaggggcata gagacgctct      300
cagcctgccc atttgccctc atcaacattc ctaaactctg ggcttaaaat gtagtatgag      360
taaactctct cttagtctat ccactctcca ctagcagttt taacatcatc tctagttatt      420
aaccttggct caatggcttt ctcttttttt atacagaatt tattggcttg agacgctgtt      480
taatgggttt ggggagatgc agggatcact gcaatgtgga tgaaaaagag atacagaaat      540
gcaagatgaa aaaatgttgt gttggaccaa aagtgggttaa attgattaaa aactacctgc      600
aatatggaac accaaatgta cttaatgaag acgtccaaga aatgctaaaa cctgccaaga      660
attctagtgc tgtgatacaa agaaaacata ttttatctgt tctcccccaa atcaaaagca      720
ctagcttttt tgctaatacc aactttgtca tcattccaaa tgccaccctt atgaactctg      780
ccaccatcag cactatgacc ccaggacaga tcacatacac tgctacttct accaagagta      840
acaccaaaga aagcagagat tctgccactg cctcgccacc accagcacca cctccaccaa      900
acatactgcc aacaccatca ctggagctag aggaagcaga agagcagtaa tgtggatctt      960
tcctttaaaa ctccaagttc ctctctattt ttgctatcta taaaatgaca tagaactgtt     1020
tcctctgtca tcagtcattc aataaacac                                     1049

```

```

<210> 34
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 34
ggctactgag tttgggtga

```

18

```

<210> 35
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 35
gtgtttattg aatgactgat g

```

21

```

<210> 36
<211> 18
<212> DNA
<213> Artificial Sequence

```


<220>
 <223> Sequencing primer
 <400> 36
 caaggaaggc agactaaa 18

<210> 37
 <211> 552
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> CDS
 <222> (1)..(552)
 <223> Coding sequence for the variant human DEFB129 gene
 <400> 37

atg aag ctc ctt ttt cct atc ttt gcc agc ctc atg cta cag tac cag 48
 Met Lys Leu Leu Phe Pro Ile Phe Ala Ser Leu Met Leu Gln Tyr Gln
 1 5 10 15

gtg aac aca gaa ttt att ggc ttg aga cgc tgt tta atg ggt ttg ggg 96
 Val Asn Thr Glu Phe Ile Gly Leu Arg Arg Cys Leu Met Gly Leu Gly
 20 25 30

aga tgc agg gat cac tgc aat gtg gat gaa aaa gag ata cag aaa tgc 144
 Arg Cys Arg Asp His Cys Asn Val Asp Glu Lys Glu Ile Gln Lys Cys
 35 40 45

aag atg aaa aaa tgt tgt gtt gga cca aaa gtg gtt aaa ttg att aaa 192
 Lys Met Lys Lys Cys Cys Val Gly Pro Lys Val Val Lys Leu Ile Lys
 50 55 60

aac tac ctg caa tat gga aca cca aat gta ctt aat gaa gac gtc caa 240
 Asn Tyr Leu Gln Tyr Gly Thr Pro Asn Val Leu Asn Glu Asp Val Gln
 65 70 75 80

gaa atg cta aaa cct gcc aag aat tct agt gct gtg ata caa aga aaa 288
 Glu Met Leu Lys Pro Ala Lys Asn Ser Ser Ala Val Ile Gln Arg Lys
 85 90 95

cat att tta tct gtt ctc ccc caa atc aaa agc act agc ttt ttt gct 336
 His Ile Leu Ser Val Leu Pro Gln Ile Lys Ser Thr Ser Phe Phe Ala
 100 105 110

aat acc aac ttt gtc atc att cca aat gcc acc cct atg aac tct gcc 384
 Asn Thr Asn Phe Val Ile Ile Pro Asn Ala Thr Pro Met Asn Ser Ala
 115 120 125

acc atc agc act atg acc cca gga cag atc aca tac act gct act tct 432
 Thr Ile Ser Thr Met Thr Pro Gly Gln Ile Thr Tyr Thr Ala Thr Ser
 130 135 140

acc aag agt aac acc aaa gaa agc aga gat tct gcc act gcc tcg cca 480
 Thr Lys Ser Asn Thr Lys Glu Ser Arg Asp Ser Ala Thr Ala Ser Pro
 145 150 155 160

cca cca gca cca cct cca cca aac ata ctg cca aca cca tca ctg gag 528
 Pro Pro Ala Pro Pro Pro Pro Asn Ile Leu Pro Thr Pro Ser Leu Glu
 165 170 175

cta gag gaa gca gaa gag cag taa 552
 Leu Glu Glu Ala Glu Glu Gln

180

<210> 38
 <211> 183
 <212> PRT
 <213> Homo sapiens
 <400> 38

Met Lys Leu Leu Phe Pro Ile Phe Ala Ser Leu Met Leu Gln Tyr Gln
 1 5 10 15

Val Asn Thr Glu Phe Ile Gly Leu Arg Arg Cys Leu Met Gly Leu Gly
 20 25 30

Arg Cys Arg Asp His Cys Asn Val Asp Glu Lys Glu Ile Gln Lys Cys
 35 40 45

Lys Met Lys Lys Cys Cys Val Gly Pro Lys Val Val Lys Leu Ile Lys
 50 55 60

Asn Tyr Leu Gln Tyr Gly Thr Pro Asn Val Leu Asn Glu Asp Val Gln
 65 70 75 80

Glu Met Leu Lys Pro Ala Lys Asn Ser Ser Ala Val Ile Gln Arg Lys
 85 90 95

His Ile Leu Ser Val Leu Pro Gln Ile Lys Ser Thr Ser Phe Phe Ala
 100 105 110

Asn Thr Asn Phe Val Ile Ile Pro Asn Ala Thr Pro Met Asn Ser Ala
 115 120 125

Thr Ile Ser Thr Met Thr Pro Gly Gln Ile Thr Tyr Thr Ala Thr Ser
 130 135 140

Thr Lys Ser Asn Thr Lys Glu Ser Arg Asp Ser Ala Thr Ala Ser Pro
 145 150 155 160

Pro Pro Ala Pro Pro Pro Pro Asn Ile Leu Pro Thr Pro Ser Leu Glu
 165 170 175

Leu Glu Glu Ala Glu Glu Gln
 180

<210> 39
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(552)
 <223> Coding sequence for the human DEFB129 gene
 <400> 39
 atg aag ctc ctt ttt cct atc ttt gcc agc ctc atg cta cag tac cag 48
 Met Lys Leu Leu Phe Pro Ile Phe Ala Ser Leu Met Leu Gln Tyr Gln
 1 5 10 15
 gtg aac aca gaa ttt att ggc ttg aga cgc tgt tta atg ggt ttg ggg 96
 Val Asn Thr Glu Phe Ile Gly Leu Arg Arg Cys Leu Met Gly Leu Gly
 20 25 30
 aga tgc agg gat cac tgc aat gtg gat gaa aaa gag ata cag aaa tgc 144
 Arg Cys Arg Asp His Cys Asn Val Asp Glu Lys Glu Ile Gln Lys Cys
 35 40 45
 aag atg aaa aaa tgt tgt gtt gga cca aaa gtg gtt aaa ttg att aaa 192
 Lys Met Lys Lys Cys Cys Val Gly Pro Lys Val Val Lys Leu Ile Lys
 50 55 60
 aac tac cta caa tat gga aca cca aat gta ctt aat gaa gac gtc caa 240
 Asn Tyr Leu Gln Tyr Gly Thr Pro Asn Val Leu Asn Glu Asp Val Gln
 65 70 75 80
 gaa atg cta aaa cct gcc aag aat tct agt gct gtg ata caa aga aaa 288
 Glu Met Leu Lys Pro Ala Lys Asn Ser Ser Ala Val Ile Gln Arg Lys
 85 90 95
 cat att tta tct gtt ctc ccc caa atc aaa agc act agc ttt ttt gct 336
 His Ile Leu Ser Val Leu Pro Gln Ile Lys Ser Thr Ser Phe Phe Ala
 100 105 110
 aat acc aac ttt gtc atc att cca aat gcc acc cct atg aac tct gcc 384
 Asn Thr Asn Phe Val Ile Ile Pro Asn Ala Thr Pro Met Asn Ser Ala
 115 120 125
 acc atc agc act atg acc cca gga cag atc aca tac act gct act tct 432
 Thr Ile Ser Thr Met Thr Pro Gly Gln Ile Thr Tyr Thr Ala Thr Ser
 130 135 140
 acc aag agt aac acc aaa gaa agc aga gat tct gcc act gcc tcg cca 480
 Thr Lys Ser Asn Thr Lys Glu Ser Arg Asp Ser Ala Thr Ala Ser Pro
 145 150 155 160
 cca cca gca cca cct cca cca aac ata ctg cca aca cca tca ctg gag 528
 Pro Pro Ala Pro Pro Pro Pro Asn Ile Leu Pro Thr Pro Ser Leu Glu
 165 170 175
 cta gag gaa gca gaa gag cag taa 552
 Leu Glu Glu Ala Glu Glu Gln
 180
 <210> 40
 <211> 183
 <212> PRT
 <213> Homo sapiens
 <400> 40
 Met Lys Leu Leu Phe Pro Ile Phe Ala Ser Leu Met Leu Gln Tyr Gln

1				5				10				15			
Val	Asn	Thr	Glu 20	Phe	Ile	Gly	Leu	Arg 25	Arg	Cys	Leu	Met	Gly 30	Leu	Gly
Arg	Cys	Arg 35	Asp	His	Cys	Asn	Val 40	Asp	Glu	Lys	Glu	Ile 45	Gln	Lys	Cys
Lys	Met 50	Lys	Lys	Cys	Cys	Val 55	Gly	Pro	Lys	Val	Val 60	Lys	Leu	Ile	Lys
Asn 65	Tyr	Leu	Gln	Tyr	Gly 70	Thr	Pro	Asn	Val	Leu 75	Asn	Glu	Asp	Val	Gln 80
Glu	Met	Leu	Lys	Pro 85	Ala	Lys	Asn	Ser	Ser 90	Ala	Val	Ile	Gln	Arg 95	Lys
His	Ile	Leu	Ser 100	Val	Leu	Pro	Gln	Ile 105	Lys	Ser	Thr	Ser	Phe 110	Phe	Ala
Asn	Thr	Asn 115	Phe	Val	Ile	Ile	Pro 120	Asn	Ala	Thr	Pro	Met 125	Asn	Ser	Ala
Thr	Ile 130	Ser	Thr	Met	Thr	Pro 135	Gly	Gln	Ile	Thr	Tyr 140	Thr	Ala	Thr	Ser
Thr 145	Lys	Ser	Asn	Thr	Lys 150	Glu	Ser	Arg	Asp	Ser 155	Ala	Thr	Ala	Ser	Pro 160
Pro	Pro	Ala	Pro	Pro 165	Pro	Pro	Asn	Ile	Leu 170	Pro	Thr	Pro	Ser	Leu 175	Glu
Leu	Glu	Glu	Ala 180	Glu	Glu	Gln									

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<210> 41
<211> 372
<212> DNA
<213> Homo sapiens
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 $\langle 220 \rangle$

<221> CDS

$\langle 222 \rangle$ (1) .. (372)

<223> Coding sequence for the variant human DEFB118 gene

<225>	38
<400>	41

atg aaa ctc ctg ctg ctg gct ctt cct atg ctt gtg ctc cta ccc caa 48
Met Lys Leu Leu Leu Leu Ala Leu Pro Met Leu Val Leu Leu Pro Gln
1 5 10 15

gtg atc cca gcc tat agt ggt gaa aaa aaa tgc tgg aac aga tca ggg 96

Val	Ile	Pro	Ala	Tyr	Ser	Gly	Glu	Lys	Lys	Cys	Trp	Asn	Arg	Ser	Gly		
			20					25					30				
cac	cgc	agg	aaa	caa	tgc	aaa	gat	gga	gaa	gca	gtg	aaa	gat	aca	tgc		144
His	Arg	Arg	Lys	Gln	Cys	Lys	Asp	Gly	Glu	Ala	Val	Lys	Asp	Thr	Cys		
		35					40					45					
aaa	aat	ctt	cga	gct	tgc	tgc	att	cca	tcc	aat	gaa	gac	cac	agg	cga		192
Lys	Asn	Leu	Arg	Ala	Cys	Cys	Ile	Pro	Ser	Asn	Glu	Asp	His	Arg	Arg		
	50					55					60						
gtt	cct	gcg	aca	tct	ccc	aca	ccc	ttg	agt	gac	tca	aca	cca	gga	att		240
Val	Pro	Ala	Thr		Pro	Thr	Pro	Leu	Ser	Asp	Ser	Thr	Pro	Gly	Ile		
65					70					75					80		
att	gat	gat	att	tta	aca	gta	agg	ttc	acg	aca	gac	tac	ttt	gaa	gta		288
Ile	Asp	Asp	Ile	Leu	Thr	Val	Arg	Phe	Thr	Thr	Asp	Tyr	Phe	Glu	Val		
				85				90						95			
agc	agc	aag	aaa	gat	atg	gtt	gaa	gag	tct	gag	gcg	gga	agg	gga	act		336
Ser	Ser	Lys	Lys	Asp	Met	Val	Glu	Glu	Ser	Glu	Ala	Gly	Arg	Gly	Thr		
			100					105					110				
gag	acc	tct	ctt	cca	aat	gtt	cac	cat	agc	tca	tga						372
Glu	Thr	Ser	Leu	Pro	Asn	Val	His	His	Ser	Ser							
		115					120										

<210> 42
 <211> 123
 <212> PRT
 <213> Homo sapiens
 <400> 42

Met	Lys	Leu	Leu	Leu	Leu	Ala	Leu	Pro	Met	Leu	Val	Leu	Leu	Pro	Gln		
1				5				10						15			
Val	Ile	Pro	Ala	Tyr	Ser	Gly	Glu	Lys	Lys	Cys	Trp	Asn	Arg	Ser	Gly		
			20					25					30				
His	Arg	Arg	Lys	Gln	Cys	Lys	Asp	Gly	Glu	Ala	Val	Lys	Asp	Thr	Cys		
		35					40					45					
Lys	Asn	Leu	Arg	Ala	Cys	Cys	Ile	Pro	Ser	Asn	Glu	Asp	His	Arg	Arg		
	50					55					60						
Val	Pro	Ala	Thr	Ser	Pro	Thr	Pro	Leu	Ser	Asp	Ser	Thr	Pro	Gly	Ile		
65					70					75					80		
Ile	Asp	Asp	Ile	Leu	Thr	Val	Arg	Phe	Thr	Thr	Asp	Tyr	Phe	Glu	Val		
				85				90						95			
Ser	Ser	Lys	Lys	Asp	Met	Val	Glu	Glu	Ser	Glu	Ala	Gly	Arg	Gly	Thr		
			100					105					110				

Glu Thr Ser Leu Pro Asn Val His His Ser Ser
 115 120

<210> 43
 <211> 372
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> CDS
 <222> (1)..(372)
 <223> Coding sequence of the human DEFB118 gene
 <400> 43

atg aaa ctc ctg ctg ctg gct ctt cct atg ctt gtg ctc cta ccc caa 48
 Met Lys Leu Leu Leu Leu Ala Leu Pro Met Leu Val Leu Leu Pro Gln
 1 5 10 15

gtg atc cca gcc tat agt ggt gaa aaa aaa tgc tgg aac aga tca ggg 96
 Val Ile Pro Ala Tyr Ser Gly Glu Lys Lys Cys Trp Asn Arg Ser Gly
 20 25 30

cac tgc agg aaa caa tgc aaa gat gga gaa gca gtg aaa gat aca tgc 144
 His Cys Arg Lys Gln Cys Lys Asp Gly Glu Ala Val Lys Asp Thr Cys
 35 40 45

aaa aat ctt cga gct tgc tgc att cca tcc aat gaa gac cac agg cga 192
 Lys Asn Leu Arg Ala Cys Cys Ile Pro Ser Asn Glu Asp His Arg Arg
 50 55 60

gtt cct gcg aca tct ccc aca ccc ttg agt gac tca aca cca gga att 240
 Val Pro Ala Thr Ser Pro Thr Pro Leu Ser Asp Ser Thr Pro Gly Ile
 65 70 75 80

att gat gat att tta aca gta agg ttc acg aca gac tac ttt gaa gta 288
 Ile Asp Asp Ile Leu Thr Val Arg Phe Thr Thr Asp Tyr Phe Glu Val
 85 90 95

agc agc aag aaa gat atg gtt gaa gag tct gag gcg gga agg gga act 336
 Ser Ser Lys Lys Asp Met Val Glu Glu Ser Glu Ala Gly Arg Gly Thr
 100 105 110

gag acc tct ctt cca aat gtt cac cat agc tca tga 372
 Glu Thr Ser Leu Pro Asn Val His His Ser Ser
 115 120

<210> 44
 <211> 123
 <212> PRT
 <213> Homo sapiens
 <400> 44

Met Lys Leu Leu Leu Leu Ala Leu Pro Met Leu Val Leu Leu Pro Gln
 1 5 10 15

Val Ile Pro Ala Tyr Ser Gly Glu Lys Lys Cys Trp Asn Arg Ser Gly
 20 25 30

His Cys Arg Lys Gln Cys Lys Asp Gly Glu Ala Val Lys Asp Thr Cys
 35 40 45

Lys Asn Leu Arg Ala Cys Cys Ile Pro Ser Asn Glu Asp His Arg Arg
 50 55 60

Val Pro Ala Thr Ser Pro Thr Pro Leu Ser Asp Ser Thr Pro Gly Ile
 65 70 75 80

Ile Asp Asp Ile Leu Thr Val Arg Phe Thr Thr Asp Tyr Phe Glu Val
 85 90 95

Ser Ser Lys Lys Asp Met Val Glu Glu Ser Glu Ala Gly Arg Gly Thr
 100 105 110

Glu Thr Ser Leu Pro Asn Val His His Ser Ser
 115 120

<210> 45
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 45
 aggttgagta tttgccagac

20

<210> 46
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 46
 aggacagggg tgagtgata

19

<210> 47
 <211> 246
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> CDS
 <222> (1)..(246)
 <223> Coding sequence for the variant human DEFB126 gene
 <400> 47

atg aag tcc cta ctg ttc acc ctt gca gtt ttt atg ctc ctg gcc caa
 Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
 1 5 10 15

48

ttg gtc tca ggt aat tgg tat gtg aaa aag tgt cta aac gac gtt gga
 Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
 20 25 30

96

```

att tgc aag aag aag tgc aaa cct gaa gag atg cat gta aag aat ggt      144
Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
      35              40              45

tgg gca atg tgc ggc aaa ggg act gct gtg ttc cag ctg aca gac gtg      192
Trp Ala Met Cys Gly Lys Gly Thr Ala Val Phe Gln Leu Thr Asp Val
      50              55              60

cta att atc ctg ttt tct gtg tcc aga caa aga cta caa gaa ttt caa      240
Leu Ile Ile Leu Phe Ser Val Ser Arg Gln Arg Leu Gln Glu Phe Gln
      65              70              75              80

cag taa
Gln
                                         246

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<210> 48
<211> 81
<212> PRT
<213> Homo sapiens
<400> 48

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Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
1              5              10              15

Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
      20              25              30

Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
      35              40              45

Trp Ala Met Cys Gly Lys Gly Thr Ala Val Phe Gln Leu Thr Asp Val
      50              55              60

Leu Ile Ile Leu Phe Ser Val Ser Arg Gln Arg Leu Gln Glu Phe Gln
65              70              75              80

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Gln

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<210> 49
<211> 336
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (1)..(336)
<223> Coding sequence of the human DEFB126 gene
<400> 49

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atg aag tcc cta ctg ttc acc ctt gca gtt ttt atg ctc ctg gcc caa      48
Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
1              5              10              15

ttg gtc tca ggt aat tgg tat gtg aaa aag tgt cta aac gac gtt gga      96

```


Leu	Val	Ser	Gly	Asn	Trp	Tyr	Val	Lys	Lys	Cys	Leu	Asn	Asp	Val	Gly		
			20					25					30				
att	tgc	aag	aag	aag	tgc	aaa	cct	gaa	gag	atg	cat	gta	aag	aat	ggc	144	
Ile	Cys	Lys	Lys	Lys	Cys	Lys	Pro	Glu	Glu	Met	His	Val	Lys	Asn	Gly		
		35					40					45					
tgg	gca	atg	tgc	ggc	aaa	caa	agg	gac	tgc	tgt	gtt	cca	gct	gac	aga	192	
Trp	Ala	Met	Cys	Gly	Lys	Gln	Arg	Asp	Cys	Cys	Val	Pro	Ala	Asp	Arg		
	50					55					60						
cgt	gct	aat	tat	cct	gtt	ttc	tgt	gtc	cag	aca	aag	act	aca	aga	att	240	
Arg	Ala	Asn	Tyr	Pro	Val	Phe	Cys	Val	Gln	Thr	Lys	Thr	Thr	Arg	Ile		
65					70				75						80		
tca	aca	gta	aca	gca	aca	aca	gca	aca	aca	act	ttg	atg	atg	act	act	288	
Ser	Thr	Val	Thr	Ala	Thr	Thr	Ala	Thr	Thr	Thr	Leu	Met	Met	Thr	Thr		
				85					90					95			
gct	tcg	atg	tct	tcg	atg	gct	cct	acc	ccc	gtt	tct	ccc	act	ggc	tga	336	
Ala	Ser	Met	Ser	Ser	Met	Ala	Pro	Thr	Pro	Val	Ser	Pro	Thr	Gly			
			100					105					110				

<210> 50
 <211> 111
 <212> PRT
 <213> Homo sapiens
 <400> 50

Met	Lys	Ser	Leu	Leu	Phe	Thr	Leu	Ala	Val	Phe	Met	Leu	Leu	Ala	Gln
1				5					10					15	

Leu	Val	Ser	Gly	Asn	Trp	Tyr	Val	Lys	Lys	Cys	Leu	Asn	Asp	Val	Gly
			20					25					30		

Ile	Cys	Lys	Lys	Lys	Cys	Lys	Pro	Glu	Glu	Met	His	Val	Lys	Asn	Gly
		35					40					45			

Trp	Ala	Met	Cys	Gly	Lys	Gln	Arg	Asp	Cys	Cys	Val	Pro	Ala	Asp	Arg
	50					55					60				

Arg	Ala	Asn	Tyr	Pro	Val	Phe	Cys	Val	Gln	Thr	Lys	Thr	Thr	Arg	Ile
65					70					75					80

Ser	Thr	Val	Thr	Ala	Thr	Thr	Ala	Thr	Thr	Thr	Leu	Met	Met	Thr	Thr
				85					90					95	

Ala	Ser	Met	Ser	Ser	Met	Ala	Pro	Thr	Pro	Val	Ser	Pro	Thr	Gly
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<210> 51
 <211> 20
 <212> DNA

<213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 51
 aatggtgaga aagatgacag 20

<210> 52
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> PCR primer
 <400> 52
 gttgaatgga gggaaagt 18

<210> 53
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Sequencing primer
 <400> 53
 gtaggtatatt atgattag 18

<210> 54
 <211> 334
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> CDS
 <222> (1)..(333)
 <223> Coding sequence for the variant human DEFB126 gene
 <400> 54
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 Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
 1 5 10 15
 ttg gtc tca ggt aat tgg tat gtg aaa aag tgt cta aac gac gtt gga 96
 Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
 20 25 30
 att tgc aag aag aag tgc aaa cct gaa gag atg cat gta aag aat ggt 144
 Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
 35 40 45
 tgg gca atg tgc ggc aaa caa agg gac tgc tgt gtt cca gct gac aga 192
 Trp Ala Met Cys Gly Lys Gln Arg Asp Cys Cys Val Pro Ala Asp Arg
 50 55 60
 cgt gct aat tat cct gtt ttc tgt gtc cag aca aag act aca aga att 240
 Arg Ala Asn Tyr Pro Val Phe Cys Val Gln Thr Lys Thr Thr Arg Ile
 65 70 75 80
 tca aca gta aca gca aca aca gca aca aca act ttg atg atg act act 288
 Ser Thr Val Thr Ala Thr Thr Ala Thr Thr Thr Leu Met Met Thr Thr
 85 90 95
 gct tcg atg tct tcg atg gct cct acc cgt ttc tcc cac tgg ttg a 334

Ala Ser Met Ser Ser Met Ala Pro Thr Arg Phe Ser His Trp Leu
100 105 110

<210> 55
<211> 111
<212> PRT
<213> Homo sapiens
<400> 55

Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
1 5 10 15

Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
20 25 30

Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
35 40 45

Trp Ala Met Cys Gly Lys Gln Arg Asp Cys Cys Val Pro Ala Asp Arg
50 55 60

Arg Ala Asn Tyr Pro Val Phe Cys Val Gln Thr Lys Thr Thr Arg Ile
65 70 75 80

Ser Thr Val Thr Ala Thr Thr Ala Thr Thr Thr Leu Met Met Thr Thr
85 90 95

Ala Ser Met Ser Ser Met Ala Pro Thr Arg Phe Ser His Trp Leu
100 105 110

<210> 56
<211> 50
<212> DNA
<213> Artificial Sequence
<220>
<223> snapshot primer
<400> 56

ttttttttttt ttttttttttt ttttttttttt tttgctcaat ggcttttctct

50